

IN THE CLAIMS

Please cancel all present claims 1-15 of record without prejudice or disclaimer of the subject matter and enter claims 16-31 as follows:

This listing of claims replaces all prior versions and listings of claims in the application.

Kindly enter the following new claims for consideration by the Examiner in the present application.

16. (New) A transmission method for transmitting an orthogonal frequency division multiplexing signal, the method comprising:

composing, on a per unit time basis, a plurality of carrier groups each composed of one or more subcarriers;

assigning, on a per unit time basis, transmission data for a plurality of transmission destination terminals, to the plurality of carrier groups; and

transmitting the assigned transmission data.

17. (New) The transmission method according to claim 16, further comprising:

selecting, on a per unit time basis, one of a first frame configuration for transmitting the transmission data on each carrier group, using one modulated signal, and a second frame configuration for transmitting the transmission data on each carrier group using a plurality of modulated signals; and

transmitting the assigned transmission data using the selected frame configuration.

18. (New) The transmission method according to claim 16, wherein the transmission data is assigned based on channel state information from the transmission destination terminals.

19. (New) A transmission method for transmitting an orthogonal frequency division multiplexing signal, the method comprising:

transmitting, at a first time, a modulated signal for a first terminal on a first carrier group and a modulated signal for a second terminal on a second carrier group; and

transmitting, at a second time, a modulated signal for a third terminal on the first carrier group and a modulated signal for a fourth terminal on the second carrier group.

20. (New) The transmission method according to claim 19, wherein the third and fourth terminals are selected from transmission destination terminals including the first and second terminals.

21. (New) A transmission method for transmitting an orthogonal frequency division multiplexing signal, by configuring a transmission frame including a first carrier group where a modulated signal for a first terminal is arranged and a second carrier group where a modulated signal for a second terminal is arranged, the method comprising:

selecting the transmission frame from one of a transmission frame for transmitting a modulated signal for the first terminal on the first carrier group and a transmission frame for transmitting a plurality of different modulated signals for the first terminal on the first carrier group; and

selecting the transmission frame from one of a frame configuration for transmitting a modulated signal for the second terminal on the second carrier group and a frame configuration for transmitting a plurality of different modulated signals for the second terminal on the second carrier group.

22. (New) The transmission method according to claim 21, further comprising changing, on a time axis, the modulated signals arranged on the first and second carrier groups, from modulated signals for the first and second terminals to modulated signals for terminals selected from transmission destination terminals including the first and second terminals.

23. (New) The transmission method according to claim 21, further comprising selecting the transmission frame configuration based on channel state information from the terminals.

24. (New) A transmitting apparatus comprising:
an orthogonal frequency division multiplexing signal generation section that generates an orthogonal frequency division multiplexing signal; and

a frame configuration determination section that determines a modulated signal to be assigned to a carrier of the orthogonal frequency division multiplexing signal,

wherein the frame configuration determination section composes, on a per unit time basis, a plurality of carrier groups each composed of one or more subcarriers, and, assigns, on a per unit time basis, transmission data for a plurality of transmission destination terminals, to the plurality of composed carrier groups.

25. (New) The transmitting apparatus according to claim 24, wherein the frame configuration determination section composes the transmission frame by selecting, on a per unit time basis, one of a first frame configuration for transmitting one modulated signal on each

subcarrier group and a second frame configuration for transmitting a plurality of modulated signals on each subcarrier group.

26. (New) The transmitting apparatus according to claim 24, wherein the frame configuration determination section composes a frame based on channel state information from the terminals.

27. (Currently Amended) A transmitting apparatus comprising:
an orthogonal frequency division multiplexing signal generation section that generates an orthogonal frequency division multiplexing signal; and
a frame configuration determination section that determines a modulated signal assigned to a carrier of the orthogonal frequency division multiplexing signal,
wherein, at a first time, the frame configuration determination section assigns a modulated signal for a first terminal to a first carrier group and assigns a modulated signal for a second terminal to a second carrier group, and at a second time, assigns a modulated signal for a third terminal to the first carrier group and assigns a modulated signal for a fourth terminal to the second carrier group.

28. (Currently Amended) The transmitting apparatus according to claim 27, the third and fourth terminals are selected from transmission destination terminals including the first and second terminals.

29 (Currently Amended) A transmitting apparatus comprising:
an orthogonal frequency division multiplexing signal generation section that generates an orthogonal frequency division multiplexing signal;
a frame configuration determination section that determines a modulated signal to be assigned to a carrier of the orthogonal frequency division multiplexing signal and composes a transmission frame; and
a plurality of antennas,
wherein the frame configuration determination section selects one of a frame configuration for transmitting a modulated signal for a first terminal on a first carrier group included in the orthogonal frequency division multiplexing signal and a frame configuration for transmitting a plurality of different modulated signals for the first terminal on the first carrier group from respectively different antennas, and,

selects one of a frame configuration for transmitting a modulated signal for a second terminal on a second carrier group included in the orthogonal frequency division multiplexing signal and a frame configuration for transmitting a plurality of different modulated signals for the second terminal on the second carrier group, from respectively different antennas.

30. (New) The transmitting apparatus according to claim 29, wherein the frame configuration determination section changes, on a time axis, modulated signals arranged on the first and second carrier groups, from modulated signals for the first and second terminals to modulated signals for terminals selected from transmission destination terminals including the first and second terminals.

31. (New) The transmitting apparatus according to claim 29, wherein the frame configuration is selected based on channel state information from the terminals.